

FORM PTO-1449A

SUPPLEMENTAL

INFORMATION DISCLOSURE CITATION

Attorney Docket:
0769-4624US5Serial No.:
10/657,096Applicant:
BAHAR et al.Filing Date:
September 9, 2003Group Art Unit:
1745

U.S. PATENT / PUBLICATION DOCUMENTS

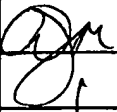
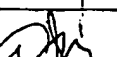
Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
<i>ajm</i>	1.	2,681,319	6/15/1954	Bodamer	
	2.	2,827,426	3/18/1958	Bodamer	
	3.	2,951,818	9/6/1960	Haagen	
	4.	2,965,697	12/20/1960	Duddy	
	5.	3,647,086	3/7/1972	Mizutani et al.	
	6.	3,692,569	9/19/1972	Grot	
	7.	4,012,303	3/15/1977	D'Agostino et al.	
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	9.	4,107,005	8/15/1978	D'Agostino et al.	
	10.	4,186,076	1/29/1980	De Nora et al.	
	11.	4,207,163	6/10/1980	Kadija	
	12.	4,207,164	6/10/1980	Kadija	
	13.	4,210,510	7/1/1980	Grimes	
	14.	4,218,542	8/19/1980	Ukibashi et al.	
	15.	4,224,121	9/23/1980	Dempsey et al.	
	16.	4,262,041	4/14/1981	Eguchi et al.	
	17.	4,313,832	2/2/1982	Shimizu et al.	
	18.	4,341,615	7/27/1982	Bachot et al.	
	19.	4,453,991	6/12/1984	Grot	
	20.	4,469,744	9/4/1984	Lee	
	21.	4,515,906	5/7/1985	Friesen et al.	
	22.	4,518,650	5/21/1985	Grot et al.	
<i>ajm</i>	23.	4,604,170	8/5/1986	Miyaka et al.	

Examiner

Date Considered

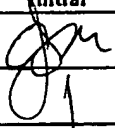
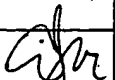
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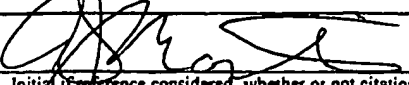
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U.S. PATENT / PUBLICATION DOCUMENTS					
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	24.	4,629,563	12/16/1986	Wrasidla	
	25.	4,664,801	5/12/1987	Thomas	
	26.	4,698,243	10/6/1987	Carl et al.	
	27.	4,724,157	2/9/1988	Toda et al.	
	28.	4,731,263	3/15/1988	Martin et al.	
	29.	4,774,039	9/27/1988	Wrasidlo	
	30.	4,781,767	11/1/1988	Toda et al.	
	31.	4,804,592	2/14/1989	Vanderborgh et al.	
	32.	4,835,007	5/30/1989	Toda et al.	
	33.	4,862,730	9/5/1989	Crosby	
	34.	4,863,604	9/5/1989	Lo et al.	
	35.	4,865,925	9/12/1989	Ludwig et al.	
	36.	4,865,930	9/12/1989	Kindler et al.	
	37.	4,875,908	10/24/1989	Kikukawa et al.	
	38.	4,895,775	1/23/1990	Kato et al.	
	39.	4,902,308	2/20/1990	Mallouk et al.	
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	42.	4,985,296	1/15/1991	Mortimer, Jr.	
	43.	4,990,228	2/5/1991	Perusich et al.	
	44.	4,997,567	3/5/1991	Messalem et al.	
	45.	5,066,403	11/19/1991	Dutta et al.	
	46.	5,075,006	12/24/1991	Schucker	

Examiner	Date Considered 10/05
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U.S. PATENT / PUBLICATION DOCUMENTS					
Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name	Filing Date
	47.	5,082,475	1/21/1992	Bentz	
	48.	5,087,767	2/11/1992	Okamoto et al.	
	49.	5,094,895	3/10/1992	Branca et al.	
	50.	5,124,018	6/23/1992	Furuya et al.	
	51.	5,154,827	10/13/1992	Ashelin et al.	
	52.	5,183,545	2/2/1993	Branca et al.	
	53.	5,186,877	2/16/1993	Watanabe	
	54.	5,188,890	2/23/1993	Ohashi et al.	
	55.	5,190,813	3/2/1993	Oshahi et al.	
	56.	5,209,850	5/11/1993	Abayasekara et al.	
	57.	5,211,827	5/18/1993	Peck	
	58.	5,228,994	7/20/1993	Tkacik et al.	
	59.	5,234,777	8/10/1993	Wilson	
	60.	5,256,503	10/26/1993	Cook et al.	
	61.	5,266,421	11/30/1993	Townsend et al.	
	62.	5,275,725	1/4/1994	Ishii et al.	
	63.	5,288,384	2/22/1994	Banerjee	
	64.	5,336,384	8/9/1994	Tsou et al.	
	65.	5,338,412	8/16/1994	Burk et al.	
	66.	5,356,663	10/18/1994	Perusich et al.	
	67.	5,415,888	5/16/1995	Banerjee et al.	
	68.	5,425,865	6/20/1995	Singleton et al.	
	69.	5,438,082	8/1/1995	Helmer-Metzman et al.	

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Examiner Initial		Patent/Publication Number	Publication/Issue Date	Name
	70.	5,447,636	9/5/1995	Banerjee
	71.	5,453,333	9/26/1995	Takauchi
	72.	5,468,574	11/21/1995	Ehrenberg et al.
	73.	5,545,475	8/13/1996	Korleski
	74.	5,597,659	1/28/1997	Morigaki
	75.	5,599,638	2/4/1997	Surampudi et al.
	76.	5,635,041	6/3/1997	Bahar et al.
	77.	5,672,438	9/30/1997	Banerjee et al.
	78.	5,766,787	6/16/1998	Watanabe et al.
	79.	5,795,668	8/18/1998	Banerjee
	80.	5,874,182	2/23/1999	Wilkinson et al.
	81.	6,054,230	4/25/2000	Kato
	82.	6,130,175	10/10/2000	Rusch et al.
	83.	6,254,978	7/3/2001	Bahar et al.
	84.	RE 37,307	8/7/2001	Bahar et al.
	85.	RE 37,656	4/16/2002	Bahar et al.
	86.	RE 37,701	5/14/2002	Bahar et al.
	87.	2003/0113604 A1	6/19/2003	Bahar et al.

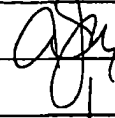

FOREIGN PATENT DOCUMENTS						
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	88.	49-146570	12/18/1974	JAPAN	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	89.	51-71888	6/22/1976	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	90.	2 295 982	7/23/1976	FRANCE (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
Examiner			Date Considered			
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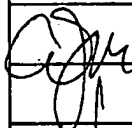
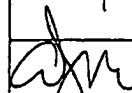
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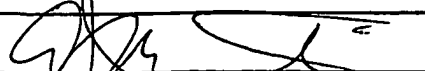
FOREIGN PATENT DOCUMENTS						
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	91.	2 009 788	6/20/1979	GREAT BRITAIN	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	92.	2 052 382	1/28/1981	GREAT BRITAIN	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	93.	2 091 166	7/28/1982	GREAT BRITAIN	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	94.	57-134586	8/19/1982	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	95.	61-246394	1/11/1986	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	96.	61-276987	12/6/1986	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	97.	62-131038	6/13/1987	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	98.	62-179168	8/6/1987	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	100.	62-280231	12/5/1987	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	102.	64-22932	1/25/1989	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	103.	88-17506	4/6/1989	AUSTRALIA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	104.	89/06055	6/29/1989	WO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	105.	01-186752	7/26/1989	JAPAN (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	106.	0 326 360 A2	8/2/1989	EUROPE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	107.	0 326 632 A1	8/9/1989	EUROPE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	108.	90/13593	11/15/1990	WO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	109.	91/14021	9/19/1991	WO	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	110.	0 503 147 A1	9/16/1992	EUROPE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	111.	0 550 262 A1	7/7/1993	EUROPE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	113.	0 574 791 A2	12/22/1993	EUROPE (w/ Abst.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No

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	114.	0 594 007 A1	4/27/1994	EUROPE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	116.	0 661 336 A1	7/5/1995	EUROPE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No
	117.	0 718 903 A1	6/26/1996	EUROPE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes <input type="checkbox"/> No

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	118.	Penner et al., "Ion transporting Composite Membranes," JOURNAL OF THE ELECTROCHEMICAL SOCIETY, Vol. 132, No. 2, Feb. 1985, pp. 514-514.
	119.	Taylor et al., "The Effect of Support Morphology on Composite Membrane Performance," ELECTROCHEMICAL SOCIETY MEETING, San Diego, Oct. 19-24, 1986.
	120.	Asawa, "Material Properties of Cation Exchange Membranes for Chloralkali Electrolysis, Water Electrolysis and Fuel Cells," JOURNAL OF APPLIED ELECTROCHEMISTRY, Vol. 19, No. 4, 1989, pp. 566-570.
	121.	Liu et al., "Ion Transporting Composite Membranes," JOURNAL OF ELECTROCHEMICAL SOCIETY, Vol. 137, No. 2, Feb. 1990, pp. 510-515.
	122.	Verbrugge et al., "Composite Membranes for Fuel-Cell Applications," AIChE Journal, Vol. 38, No. 1, January 1992, pp. 92-100.
	123.	Glad et al., "Synthesis of Reactive Composite Membranes from Celgard 2400 and Methacrylate Monomers," JOURNAL OF MEMBRANE SCIENCE, Vol. 67, 1992, pp. 289-293.
	124.	Kolde et al., "Advanced Composite Polymer Electrolyte Fuel Cell Membranes," ELECTROCHEMICAL SOCIETY PROCEEDINGS, Vol. 95-23, 1995, pp. 193-201.

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